			<i>(1)</i> ~~~~
8	Application No.	Applicant(s)	
Notice of Allowability	09/976,195	KHARE, GYANESH	P.
	Examiner	Art Unit	
	James Arnold, Jr.	1764	
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in 85) or other appropriate commun RIGHTS. This application is su	this application. If not include nication will be mailed in due o	d course. THIS
1. \boxtimes This communication is responsive to <u>the amendment fin</u>	<u>led on 7 June 2004</u> .		
2. The allowed claim(s) is/are <u>17-31</u> .			
3. The drawings filed on are accepted by the Exam	niner.	•	
 4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents h 2. ☐ Certified copies of the priority documents h 3. ☐ Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	nave been received. nave been received in Application documents have been received	n No in this national stage applicat	
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDC THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which			OTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") (a) ☐ including changes required by the Notice of Drafts; 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examin Paper No./Mail Date	person's Patent Drawing Review ner's Amendment / Comment or i	in the Office action of	
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	in the header according to 37 CFF	e drawings in the front (not the ? 1.121(d).	Dack) of
7. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREME			lote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material	6. ☐ Interview Su Paper No./N SB/08), 7. ⊠ Examiner's A	Mail Date Amendment/Comment Statement of Reasons for Allo	·.

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lynda Jolly on June 17, 2004.

The application has been amended as follows:

Claims 32 and 33 have been cancelled.

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IN THE CLAIMS

Please cancel claims 1 – 16 and 32 - 51 without prejudice.

- 1. Cancelled
- 2. Cancelled
- 3. Cancelled
- 4. Cancelled
- 5. Cancelled
- 6. Cancelled
- 7. Cancelled
- 8. Cancelled
- 9. Cancelled
- 10. Cancelled
- 11. Cancelled
- 12. Cancelled
- 13. Cancelled
- 14. Cancelled
- 15. Cancelled
- 16. Cancelled
- 17. (Original) A process of making a sorbent composition, said process comprising the steps of:

- (a) admixing zinc oxide and a carrier to provide a support mix;
- (b) particulating the support mix to provide a support particulate;
- (c) incorporating said support particulate with a noble metal to provide a promoted particulate comprising an unreduced noble metal; and
- (d) reducing said promoted particulate to provide a reduced sorbent composition comprising a reduced-valence noble metal.
- 18. (Original) A process in accordance with claim 17 wherein said reduced-valence noble metal has a valence which is less than the valence of said unreduced noble metal.
- 19. (Original) A process in accordance with claim 18 wherein said carrier comprises a silica compound and an alumina compound.
- 20. (Original) A process in accordance with claim 17 wherein said reduced-valence noble metal has a valence of less than 2.
- 21. (Original) A process in accordance with claim 20 wherein said promoted particulate is dried and calcined before reduction.

- 22. (Original) A process in accordance with claim 21 wherein said support particulate is dried and calcined before incorporation with said noble metal.
- 23. (Original) A process in accordance with claim 22 wherein said reduced-valence noble metal comprises platinum.
- 24. (Original) A process in accordance with claim 17 wherein said support mix is selected from the group consisting of a wet mix, a dough, a paste, and a slurry, and wherein said support particulate is selected from the group consisting of a granulate, an extrudate, a tablet, a sphere, a pellet, and a microsphere.
- 25. (Original) A process in accordance with claim 24 wherein said support particulate comprises a microsphere.
- 26. (Original) A process in accordance with claim 17 wherein said support mix is in the form of a slurry and said particulating comprises spray drying said slurry to form a microsphere.
- 27. (Original) A process in accordance with claim 26 wherein said microsphere has a mean particle size in the range of from about 1 micrometer to about 500 micrometers.
- 28. (Original) A process in accordance with claim 17 wherein said incorporating is selected from the group consisting of impregnating, soaking, spraying, and combinations thereof.

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June 24, 2004

- 29. (Original) A process in accordance with claim 17 wherein said incorporating comprises incipient wetness impregnation.
- 30. (Original) A process in accordance with claim 17 wherein said reduced-valence noble metal has a valence of zero.
- 31. (Original) A process in accordance with claim 30 wherein said reduced-valence noble metal component comprises platinum.

Claims 32-51 are canceled.

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose a process for making a sorbent composition suitable for desulfurization comprising the steps of (a) admixing zinc oxide and a carrier to provide a support mix; (b) particulating the support mix to provide a support particulate; (c) incorporating said support particulate with a noble metal to provide a promoted particulate comprising an unreduced noble metal; and (d) reducing said promoted particulate to provide a reduced-valence noble metal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Arnold, Jr. whose telephone number is 571-272-1443. The examiner can normally be reached on Monday-Thursday 8:30 AM-6:00 PM; Fridays from 8:30 AM-5:00 PM with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ja June 16, 2004

Walter D. Griffin Primary Examiner